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## NOTICE OF ALLOWANCE AND FEE(S) DUE

5514

7590

02/27/2004

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112

**EXAMINER** GRANT II, JEROME ART UNIT PAPER NUMBER

2626 DATE MAILED: 02/27/2004

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/467 984 12/21/1999 HIROCHIKA MATSUOKA 3091 862.3176

TITLE OF INVENTION: SIGNAL PROCESSING APPARATUS IMAGE PROCESSING APPARATUS AND THEIR METHODS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	05/27/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

(703) 746-4000 or Fax

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02/27/2004

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name) (Signature) (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/467.984	12/21/1999	HIROCHIKA MATSLIOKA	862 3176	3001

TITLE OF INVENTION: SIGNAL PROCESSING APPARATUS IMAGE PROCESSING APPARATUS AND THEIR METHODS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE		PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$0	\$1330	05/27/2004
EXAMINER		ART UNIT		CLASS-SUBCLASS		
GRANT II, JEROME		2626 358-001900				
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).      Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.      "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		names of agents Of firm (hav agent) and	nting on the patent front page, up to 3 registered patent at 3, alternatively, (2) the name ing as a member a registered d the names of up to 2 registe or agents. If no name is listed inted.	ttorneys or 1 of a single attorney or 2 ered patent		
	O RESIDENCE DATA TO E s an assignee is identified be ed to the USPTO or is being IEE	low, no assignee d submitted under se	ata will appe parate cover.	Γ (print or type) ar on the patent. Inclusion of as Completion of this form is NOT CE: (CITY and STATE OR COU		iate when an assignment has signment.

Please check the appropriate assignee category or categories (w	ll not be printed on the patent);	□ individual	☐ corporation or other private group entity	√ 🚨 governmer	
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):				
☐ Issue Fee	☐ A check in the amount of the fee(s) is enclosed.				
☐ Publication Fee	☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Advance Order - # of Copies	☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment Deposit Account Number (enclose an extra copy of this form).				
Director for Patents is requested to apply the Issue Fee and Publ	ication Fee (if any) or to re-apply	any previously p	aid issue fee to the application identified abo	ove.	
(Authorized Signature)  NOTE: The Issue Fee and Publication Fee (if required) will other than the applicant; a registered attorney or agent; or interest as shown by the records of the United States Patent an	Date)  I not be accepted from anyone the assignee or other party in d Trademark Office.				
This collection of information is required by 37 CFR 1.311. obtain or retain a benefit by the public which is to file (and application. Confidentiality is governed by 35 U.S.C. 122 and estimated to take 12 minutes to complete, including gathering completed application form to the USPTO. Time will vary case. Any comments on the amount of time you require suggestions for reducing this burden, should be sent to the CP Patent and Trademark Office, U.S. Department of CO 22313-1450. DO NOT SEND FEES OR COMPLETED F SEND TO: Commissioner for Patents, Alexandria, Virginia 22	The information is required to by the USPTO to process) an 37 CFR 1.14. This collection is 18, preparing, and submitting the depending upon the individual to complete this form and/or chief Information Officer, U.S. nmerce, Alexandria, Virginia ORMS TO THIS ADDRESS.				
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/467,984	12/21/1999	HIROCHIKA MATSUOKA	862.3176	3091
5514	7590 02/27/2004		EXAM	INER
FITZPATRICK 30 ROCKEFELL	CELLA HARPER &	SCINTO	GRANT II,	JEROME
NEW YORK, N			ART UNIT	PAPER NUMBER
			2626	7
			DATE MAILED: 02/27/200	4

# Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)		
	09/467,984	MATSLIOKA HII	BOCHIKA	
Notice of Allowability	Examiner	Art Unit	MATSUOKA, HIROCHIKA Art Unit	
	Jerome Grant II	2626		
	COTOTIO CIAIR II			
The MAILING DATE of this communication a All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	S IS (OR REMAINS) CLOSED -85) or other appropriate comm T RIGHTS. This application is	in this application. If not inconnication will be mailed in c	luded lue course. <b>THIS</b>	
1. ☑ This communication is responsive to <u>an amendment re</u>	eceived 1-16-04			
2. X The allowed claim(s) is/are 1-11 and 13-22.	<u>500W04 1 70 0 1</u> .			
3. X The drawings filed on 12-21-1999 are accepted by the	Examiner.			
<ol> <li>Acknowledgment is made of a claim for foreign priority</li> <li>a)</li></ol>		or (f).	-	
1.   Certified copies of the priority documents I	nave been received.			
2. Certified copies of the priority documents I		ion No		
3. Copies of the certified copies of the priority	• •	<del></del>	lication from the	
International Bureau (PCT Rule 17.2(a)		3 17		
* Certified copies not received:	,			
5. Acknowledgment is made of a claim for domestic priori	ty under 35 U.S.C. § 119(e) (to	a provisional application).		
(a) The translation of the foreign language provision				
6. 🔲 Acknowledgment is made of a claim for domestic priori	ty under 35 U.S.C. §§ 120 and	/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE below. Failure to timely comply will result in ABANDONMEN 7.   A SUBSTITUTE OATH OR DECLARATION must be sINFORMAL PATENT APPLICATION (PTO-152) which gives in the complex of the comp	Γ of this application. THIS THI ubmitted. Note the attached Expension of the stracked Expension	REE-MONTH PERIOD IS N KAMINER'S AMENDMENT	OT EXTENDABLE	
8. CORRECTED DRAWINGS must be submitted.				
<ul> <li>(a) ☐ including changes required by the Notice of Drafts</li> </ul>	sperson's Patent Drawing Revie	ew / PTO-048) attached		
1) ☐ hereto or 2) ☐ to Paper No.	portion or atom brawing recon	cw (1 10-540) attached		
(b) ☐ including changes required by the proposed draw	ing correction filed wh	ich has been approved by th	ne Evaminer	
(c) ☐ including changes required by the attached Exam				
(e, manager, equite b) the discondend Exam	mor or amondment of comment	or in the office action of r ap	DEI 140	
Identifying indicia such as the application number (see 37 Cleach sheet.	FR 1.84(c)) should be written on	the drawings in the front (not	the back) of	
9. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREMENT FO	eposit of BIOLOGICAL MAT R THE DEPOSIT OF BIOLOG	ERIAL must be submitted ICAL MATERIAL.	d. Note the	
Attachment(s)				
Notice of References Cited (PTO-892)  Notice of Draftperson's Patent Drawing Review (PTO-948)  Information Disclosure Statements (PTO-1449), Paper Notice Review (PTO-1449)	3) 4☐ Intervie c 6☐ Examin	of Informal Patent Applications Summary (PTO-413), Paper's Amendment/Comment	per No	
7 Examiner's Comment Regarding Requirement for Deposi of Biological Material	t 8⊠ Examin 9⊡ Other	er's Statement of Reasons t	or Allowance	
	2 <u> 2116</u> 1	$\sim$		
		LCDANT II		

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### Reasons for Allowance

Claims 1-6 are allowed for the reason the prior art does not teach or suggest, "... wherein the mapping maps the signal indicating brightness using a mapping condition which is computed in accordance with highlight portions of the input and output color gamuts, and increases a degree of mapping of the highlighted portions compared to middle lightness.

Claims 7-11 are allowed for the reason the prior art does not teach or suggest, "...wherein the mapping maps the signal indicating tincture using a mapping condition which is computed in accordance with high-saturation portions of the input and output color gamuts at a predetermined hue, and increases a degree of mapping of the high saturation portion..."

Claims 13-16 are allowed for the reason the prior art does not teach or suggest in claimed combination, ".... Wherein the first mapping process is a process for compressing a color gamut, and the second mapping process is a process for expanding the color gamut.

Claim 17 is allowed for the reason the prior art does not teach or suggest, "... wherein the mapping maps the signal indicating brightness using a mapping condition which is computed in accordance with highlight portions of the input and output color gamuts and increases a degree of mapping of the highlight portion compared to middle lightness.

Claim 18 is allowed for the reason the prior art does not teach or suggest, "... wherein the mapping maps the signal indicating tincture using a mapping condition which is computed in accordance with high-saturation portions of the input and output color gamuts at a predetermined hue, and increases a degree of mapping of the high-saturation portion compared to a low saturation portion.

Claim 19 is allowed for the reason the prior art does not teach or suggest in claimed combination, "... wherein the first mapping process is a process for compressing a

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color gamut, and the second mapping process is a process for expanding the color gamut."

Claim 20 is allowed for the reason the prior art does not teach or suggest, "... wherein the mapping maps the signal indicating brightness using a mapping condition which is computed in accordance with highlight portions of the input and output color gamuts, and increases a degree of mapping of the highlight portion compared to middle lightness.'

Claim 21 is allowed for the reason the prior art does not teach in claimed combination, "... wherein the mapping maps the signal indicating tincture using a mapping condition which is computed in accordance with high-saturation portions of the input and output color gamuts at a predetermined hue, and increases a degree of mapping of the high -saturation portion compared to a low-saturation portion.

Claim 22 is allowed for the reason the prior art does not teach or suggest in claimed combination, "... wherein the first mapping process is a process for compressing a color gamut, and the second mapping process is a process for expanding the color gamut."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 703-305-4391. The examiner can normally be reached on Mon.-Fri. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams, can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

J. Grant II

JEROME GRANT II PRIMAFA EXAMINER